	Application No.	Applicant(s)
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Nation of Allowahility	10/607,764	GINSBURG ET AL.
Notice of Allowability	Examiner	Art Unit
	Vibol Tan	2819
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. $\boxtimes$ This communication is responsive to <u>the amendment filed</u>	<u>2/15/2005</u> .	
2. A The allowed claim(s) is/are 1,2,4-12,14,15,18,19 and 21-26	<u>6</u> .	
3. A The drawings filed on 30 June 2003 are accepted by the E	xaminer.	
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the attached Examiner's	e been received.  been received in Application No cuments have been received in this  of this communication to file a reply IENT of this application.  itted. Note the attached EXAMINER' es reason(s) why the oath or declarate of the submitted.  con's Patent Drawing Review ( PTO-	national stage application from the complying with the requirements  'S AMENDMENT or NOTICE OF tion is deficient.
Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.	.84(c)) should be written on the drawir	ngs in the front (not the back) of
each sheet. Replacement sheet(s) should be labeled as such in the first of the sheet and the sheet as such in the first of the sheet and the sheet and the sheet and the sheet as such in the sheet as	sit of BIOLOGICAL MATERIAL n	nust be submitted. Note the
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☐ Examiner's Amendn	è

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## Allowable Subject Matter

- 1. The following is an examiner's statement of reasons for allowance: in combination with other limitations of the claims, the cited prior arts fail to teach an electrode including a tapered end wherein the tapered end has an angle between approximately five and thirty degrees, as recited in amended claims 1 and 24; the cited prior arts also fail to teach a piezoelectric layer layered on the bottom electrode wherein a surface area of the bottom electrode is less than a surface area of the piezoelectric layer, as recited in amended claim 4; the cited prior arts also fail to teach the step of shaping the metal layer to form a tapered electrode of an acoustic resonator wherein shaping the metal laver comprises wet etching the metal layer to form the tapered electrode, as recited in amended method claim 15; and the cited prior arts also fail to teach means for preventing cracks in the piezoelectric layer wherein the means for preventing cracks comprises a bottom electrode including a tapered end positioned under the piezoelectric layer, as recited in amended claim 19.
- 2. Claims 1, 2, 4-12, 14, 15, 18, 19 and 21-26 are now in condition for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vibol Tan whose telephone number is (571) 272-1811. The examiner can normally be reached on Monday-Friday (7:00 AM-4:30 PM).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike J. Tokar can be reached on (571) 272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VIBOL TAN
PRIMARY EXAMINER